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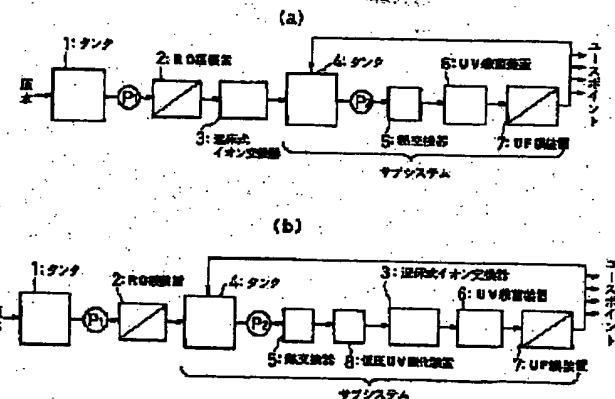
APPLICATION DATE : 22-03-96  
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APPLICANT : KURITA WATER IND LTD;

INVENTOR : OSAWA KIMINOBU;

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TITLE : DEIONIZED WATER MAKING METHOD



**ABSTRACT :** PROBLEM TO BE SOLVED: To prevent the generation of live bacteria within a mixed bed type ion exchanger by passing hot water through the mixed bed type ion exchanger having a cation exchange resin and an anion exchange resin built therein and subsequently passing raw water through the mixed bed type ion exchanger to produce deionized water.

**SOLUTION:** In producing deionized water by passing raw water through a mixed bed type ion exchanger 3, hot water is passed through the mixed bed type ion exchanger 3 packed with a cation exchange resin and an anion exchange resin to subject the ion exchanger 3 to sterilization treatment. In this hot water sterilization treatment, at a time of the rising of an apparatus, for example, a sub-system is sterilized by hot water of 80-90°C. At this time, the permeated water (hot water of 80-90°C) of a UF membrane apparatus 7 is circulated to the inlet of the mixed bed type ion exchanger 3 without being discharged out of the system to sterilize the mixed bed type ion exchanger 3. By this constitution, the mixed bed type ion exchanger 3 can be sterilized along with the sterilization of the sub-system.

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